samlexsolar

A Division of Samlex America Inc.

RV Solar Power Guide

- Solar Charging Kits
- Charge Controllers
- Battery Chargers
- Inverters
- Accessories

Power your AC devices using energy from the sun

www.samlexsolar.com

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Persunal Solar

Solar power doesn't have to be complicated.

Whether you want to brew a cup of coffee, power up your tools or tune in to your favorite TV program, we can make the process as simple as turning on the switch.

Why use solar?

Enjoy the sound of nature rather than a noisy generator or campsite. Maintenance free and good for the environment, your mobile solar system will pay for itself over and over as it preserves your batteries and saves you campsite hook-up fees.

Samlex provides Persunal Solar solutions for everyday people. Easy to install and easy to operate, you don't need to be technically savvy to start using solar – we've got it covered.

Looking for a solar solution for your RV or utility vehicle? Try one of our plug and power kits. Not sure how much power you need? Go to our website, samlexsolar.com and use our easy Solar Sizing Calculator. You tell us what you want to power and we'll tell you how.

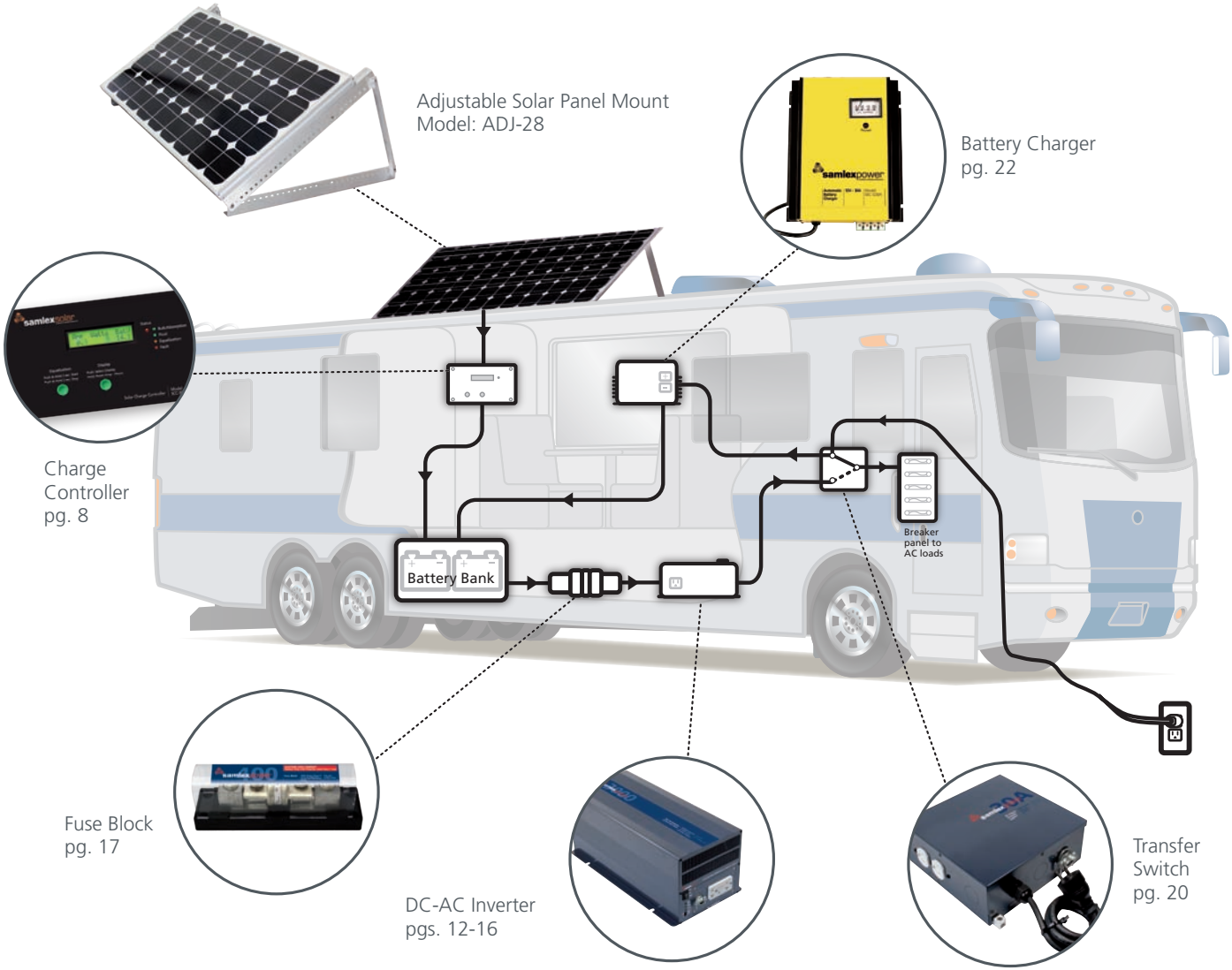
We have all the parts you'll need to complete your solar system: solar panels, charge controllers, inverters, battery chargers, transfer switches and all of the accessories to go with them.

A family run business since 1991, Samlex is a global supplier of alternative energy products backed by the best customer service in the industry.

Sustainable AC power when you need it, where you need it.

Samlex is Persunal Solar MADE SIMPLE.

How an RV Solar System Works



You tell us what you want to power and we'll tell you how. Go to samlexsolar.com and use our easy Solar Sizing Calculator.

Solar Charging Kits

Keep the batteries in your RV or utility vehicle charged and healthy.

With Samlex Solar Charging Kits, you can charge and maintain your RV batteries using sustainable energy from the sun.

MODEL	SOLAR PANEL	PANEL WEIGHT	PANEL DIMENSIONS	CHARGING POWER
SRV-50-KIT	50W	14.4 lbs	30.82"x26.33"x1.38"	3.2 Amps
SRV-85-KIT	85W	18.0 lbs	47.50"x21.75"x1.38"	5.2 Amps
SRV-120-KIT	120W	26.5 lbs	57.91"x26.22"x1.38"	7.4 Amps

What's in your kit:

1

Solar Panel

Samlex solar panels are constructed with top of the line solar cells and materials that comply with the highest industry standards.

- High efficiency
- Water proof connectors
- White tempered glass
- Anodized aluminium frames
- Resilient to harsh weather conditions
- 25 year, 80% output warranty

2 SCC-30AB

Charge Controller

Samlex 30 Amp Flush Mount Charge Controllers regulate current and protect your batteries from over-charging. Features of this 4-stage Charger include: LED status indicators, LCD display, battery equalization and 8 charge settings for most battery types.

For more detailed product information (see pg. 8).

3 SCW-20-2

Connecting Wires

A pair of weather resistant 20 foot solar panel connecting wires are provided to connect your panel to a charge controller or to an additional panel. One end of each wire is blunt and the other has a pre-assembled male or female multi-contact connector. Specifically designed for use in solar systems.

Packaged in pairs; also sold as an accessory. (see pg. 10).

4 SM5-KIT

Mounting System Hardware

Mounting brackets are provided to secure the solar panel to a flat surface while providing space underneath to facilitate cooling. Constructed in aluminium, the brackets have large surface areas on top for better stability and five available drilling holes on the bottom for convenient installation.

Packaged in fours; also sold as an accessory (see pg. 10).

Solar Expansion Kits

Need more power? Add another panel to your existing Samlex Solar System.

Add any size panel to your existing panel(s) to increase your total solar power. Total solar power is determined by adding the watts of the panels together.

* A single 30 amp Samlex Charge Controller can manage multiple panels with up to 500 watts of solar power for a 12V system.

MODEL	SOLAR PANEL	PANEL WEIGHT	PANEL DIMENSIONS	CHARGING POWER
SRV-EXP-50-KIT	50W	14.4 lbs	30.82"x26.33"x1.38"	3.2 Amps
SRV-EXP-85-KIT	85W	18.0 lbs	47.50"x21.75"x1.38"	5.2 Amps
SRV-EXP-120-KIT	120W	26.5 lbs	57.91"x26.22"x1.38"	7.4 Amps

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3

MC4

SBC-2

Branch & Multi-Contact Connectors

Samlex multi-contact (MC4) and branch connectors connect solar panels with a locking system to prevent inadvertent disconnection. Branch connectors connect panels in parallel and MC4s connect panels in series.

Packaged in pairs, one female and one male per package; also sold as accessories. See pg. 10.

4

SM5-KIT

Mounting System Hardware

Mounting brackets are provided to secure the solar panel to a flat surface while providing space underneath to facilitate cooling. Constructed in aluminium, the brackets have large surface areas on top for better stability and five available drilling holes on the bottom for convenient installation.

Packaged in fours; also sold as an accessory. See pg. 10.

Portable SunChargers

Perfect for maintaining the battery in your RV, Car, Boat, Motorcycle or ATV with the power of the sun!

Samlex SunCharger poly-crystaline solar cells produce almost DOUBLE THE POWER of similar sized amorphous silicon chargers!

SC-05 SC-10

Design Features

- Trickle charge any 12V battery using energy from the sun
- Maintenance-free and good for the environment
- Ultra slim, compact and weather-proof, won't rust!
- Rugged, durable construction - no metal or glass
- Comes with 10 ft. of weather resistant cable
- Integrated blocking diodes to prevent discharge from the battery

2 YEAR WARRANTY

Plug into any connected 12V lighter socket to begin trickle charging your battery. Extends the life of your batteries and saves on replacement costs.

		WEIGHT		DIMENSIONS		
MODEL	WATTS	(KG)	(LBS)	(MM)	(INCH)	CHARGING POWER
SC-05	4.8W	0.55	1.2	304x254x3.5	12x10x0.53	0.30 Amps
SC-10	9.5W	0.90	2.0	304x381x13.5	12x15x0.53	0.56 Amps

Charge Controllers

Regulate current flowing from a solar panel to your batteries and prevent over-charging.

A single 30 amp Samlex SCC-30AB charge controller can manage multiple panels up to 500 Watts in a 12V system.

SCC-30AB

30 AMPS
Flush Mount Design

Included in EVERY Samlex Solar Charging Kit

SCC-30AB Design Features

- BATTERY EQUALIZATION
- 8 charge settings for most battery types
- 4-stage charging with LED indicators
- Digital LCD display indicates voltage, current and battery AH

5 YEAR WARRANTY

Battery Temperature Sensor

Temperature compensated charging ensures that batteries are charged to maximum capacity in cool environments, and are well protected from over-charging in warm environments (sold separately).

DC-BTS-A-C

SAMLEXMODEL	WEIGHT (KG)	WEIGHT (LBS)	DIMENSIONS (MM)	DIMENSIONS (INCH)	CHARGING POWER
SCC-30AB	0.4	0.88	190x108x34	7.5x4.25x1.35	30 Amps
DC-BTS-A-C	n/a	n/a	10 Meters	33 Feet	n/a

PR SERIES

STECA MODEL	WEIGHT (KG)	WEIGHT (LBS)	DIMENSIONS (MM)	DIMENSIONS (INCH)	CHARGING POWER
PR-1010	0.35	0.77	187x96x44	7.36x3.78x1.73	10 Amps
PR-1515	0.35	0.77	187x96x44	7.36x3.78x1.73	15 Amps
PR-2020	0.35	0.77	187x96x44	7.36x3.78x1.73	20 Amps
PR-3030	0.35	0.77	187x96x44	7.36x3.78x1.73	30 Amps

PR-1515

PRS SERIES

SOLARIXMODEL	WEIGHT (KG)	WEIGHT (LBS)	DIMENSIONS (MM)	DIMENSIONS (INCH)	CHARGING POWER
PRS-1010	0.35	0.77	187x96x45.3	7.36x3.78x1.78	10 Amps
PRS-1515	0.35	0.77	187x96x45.3	7.36x3.78x1.78	15 Amps
PRS-2020	0.35	0.77	187x96x45.3	7.36x3.78x1.78	20 Amps
PRS-3030	0.35	0.77	187x96x45.3	7.36x3.78x1.78	30 Amps

PRS-3030

SOLSUM SERIES

SOLSUM MODEL	WEIGHT (KG)	WEIGHT (LBS)	DIMENSIONS (MM)	DIMENSIONS (INCH)	CHARGING POWER
SOLSUM 6.6 F	0.15	0.33	145x97.15x23.9	5.7x3.82x0.94	6 Amps
SOLSUM 8.8 F	0.15	0.33	145x97.15x23.9	5.7x3.82x0.94	8 Amps
SOLSUM 10.10 F	0.15	0.33	145x97.15x23.9	5.7x3.82x0.94	10 Amps

Solsum 10.10 F

2 YEAR WARRANTY

Solar Accessories

Adjustable Solar Panel Tilt Mount

Samlex aluminum adjustable solar mounts allow you to tilt panels for optimal sun exposure, amplifying energy production up to 40%.

For use with 50W, 85W or 120W panels (28" wide).

OVER 30 ADJUSTABLE SETTINGS FROM 0-90°!

ADJ-28

SCW-20-2

Connecting Wires

A pair of weather resistant 20 foot solar panel connecting wires are provided to connect your panel to a charge controller or to an additional panel. One end of each wire is blunt and the other has a pre-assembled male or female multi-contact connector. Specifically designed for use in solar systems.

Packaged in pairs.

SBC-2

Branch Connectors

Branch connectors connect solar panels with a locking system to prevent inadvertent disconnection.

Use branch connectors to connect panels in parallel.

Packaged in pairs, one female, and one male per package.

MC4-2

Multi-Contact Connectors

Multi-contact connectors (MC4-2) connect solar panels with a locking system to prevent inadvertent disconnection.

Use multi-contact to connect panels in series.

Packaged in pairs, one female, and one male per package.

SM5-KIT

Mounting Brackets & Hardware

Mounting brackets are provided to secure the solar panel to a flat surface while providing space underneath to facilitate cooling. Constructed in aluminium, the brackets have large surface areas on top for better stability and five available drilling holes on the bottom for convenient installation.

Packaged in fours with necessary hardware.

Size your Solar Kit

1. Fill in the chart to calculate the number of Watt-Hours you require per week to run all of your favorite devices.

2. Match the weekly Watt-Hours needed to a Samlex Solar Charging Kit listed below.
   - SRV-50-KIT (2100 Watt-hours)
   - SRV-85-KIT (3570 Watt-hours)
   - SRV-120-KIT (5040 Watt-hours)

3. For additional Watt-Hours add a Solar Expansion Kit to the Solar Charging Kit you selected in Step 2.
   - SRV-EXP-50-KIT (2100 Watt-hours)
   - SRV-EXP-85-KIT (3570 Watt-hours)
   - SRV-EXP-120-KIT (5040 Watt-hours)

4. 2 Solar Charging Kit(s)
   \+ 3 Solar Expansion Kit(s)
   = _____ Watt-Hours/week

NOTE:
Weekly Energy Output is based on 6 hours charging per day in optimal sunlight conditions and will vary at different times of the year, by location, and weather conditions.

Device	Typical watts required to run devices	xNumber of devices	xHours of use per day	xDays of use per week	= Weekly Watt Hours
12 VOLT DC APPLIANCES					
Compact Fluorescent Lamps	16	4	5	7	2240
Fan	10				
DC Water Pump	50				
DC Refrigerator	80				
Cell-phone Charger	5				
Television	40				
Stereo	20				
120 VOLT AC APPLIANCES					
Can Opener	100				
Coffee Maker	1200				
13” Color TV	80				
19" Color TV	160				
25" Color TV	220				
Blender	300				
Food Processor	400				
CD/DVD Player	10				
Refrigerator	200				
Portable Vacuum	550				
Incandescent Lamps	60				
Compact Fluorescent Lamps	17				
Microwave Oven	900				
Printer	550				
Hair Dryer	1250				
Iron	850				
Laptop Computer	100				
Laptop Battery Charger	25				
Cell-phone Charger	25				
Camcorder Charger	25				
Total Weekly Energy Consumption (Watt-Hours)					

Pure Sine Wave Inverters

SSW Series

NEW FOR 2011!

SSW-2000-12A SSW-1500-12A

SSW MODEL	INPUT VDC	OUTPUT VAC	OUTPUT POWER	SURGE	DIMENSIONS		WEIGHT		INVERTER INSTALLATION	REMOTE	OUTLETS
					(mm)	(in)	(kg)	(lb)			
SSW-350-12A	10.5-15.3	115	350W	700W	200x155x57	7.87x6.10x2.24	0.700	1.50	Battery clamps	n/a	2
SSW-600-12A	10.5-15.3	115	600W	1200W	230x155x57	9.06x6.10x2.24	0.900	2.00	Battery clamps	n/a	2
SSW-1000-12A	10.5-15.3	115	1000W	2000W	265x222x88	10.43x8.74x3.46	2.600	5.70	DC-1000-KIT	SSW-R1-12*	2
SSW-1500-12A	10.5-15.3	115	1500W	3000W	310x222x88	12.2x8.74x3.46	3.200	7.10	DC-2000-KIT	SSW-R1-12*	2
SSW-2000-12A	10.5-15.3	115	2000W	4000W	310x222x88	12.2x8.74x3.46	3.800	8.40	DC-2500-KIT	SSW-R1-12*	2
SSW-R1-12	Comes with 10 feet of wire				102x82x35	4.0x3.2x1.4	0.056	0.12	n/a	n/a	n/a

* Comes with inverter.

Ideal for…

Powering office equipment, televisions, DVDs, household appliances, portable electronics and other sensitive loads from your car, truck, boat, RV or solar system batteries. The SSW offers reliable pure sine wave power at AFFORDABLE prices.

SSW-1000-12A SSW-600-12A

Design Features

- 350W and 600W models come with a USB Charging Port
- High surge power **2X**
- Compact, lightweight design
- Samlex Soft Start technology
- Load controlled cooling fan
- ETL safety listed

2 YEAR WARRANTY

SSW-R1-12

Use Pure Sine Wave for…

- Inductive loads like microwaves and motors – they'll run quieter and cooler
- TVs, radio equipment, fax machines, fans and flourescent lights; audible and electric noise will be reduced
- Cell phone, portable DVD and laptop chargers
- Air conditioners, refrigerators, heaters and vacuum cleaners
- Ideal for devices with built-in-clocks and other applications that are sensitve to AC voltage irregularity

Use Modifed Sine Wave for…

- Heavy duty power tools
- Water and air pumps, air compressors
- Older televisions, VCRs and game systems
- Incandescent lighting
- Kitchen appliances such as toasters, blenders, hot plates and kettles

Pure Sine Wave Inverters

SA Series

Capable of driving highly reactive and capacitive loads.

SA-3000K-112

SR-6-12

SR-5

SR-8

See pg. 18 for remote control features (sold separately).

Design Features

Models: 150 – 600 Watts

- Isolated input and output
- Advanced microprocessor design
- Protections: overload, short circuit, reverse polarity (fuse), over/under input voltage, over temperature

Models: 1000 – 3000 Watts

- Power ON/OFF remote control available (sold separately)
- 2000 and 3000 Watt models can be hard-wired
- Load/Thermostatically controlled cooling fan
- Power save mode

2 YEAR WARRANTY

SA MODEL	INPUT VDC	OUTPUT VAC	OUTPUT POWER	SURGE	DIMENSIONS (mm)	DIMENSIONS (in)	WEIGHT (kg)	WEIGHT (lb)	INVERTER INSTALLATION	REMOTE	OUTLETS
SA-150-112	12 VDC	110 VAC	150W	200W	290x132x72	7.9x5.2x2.8	2.7	5.40	N/A	N/A	2
SA-300-112	12 VDC	110 VAC	300W	400W	237x155x72	9.3x6.1x2.8	3.5	7.70	N/A	N/A	2
SA-600R-112	12 VDC	120 VAC	600W	800W	295x180x72	11.6x7.1x2.8	2.7	5.40	DC-1000-KIT	N/A	2
SA-1000K-112	12 VDC	110 VAC	1000W	2000W	383x182x88	15.1x7.2x3.5	4.0	8.80	DC-2000-KIT	S-R6-12, S-R8	2
SA-1500-112	12 VDC	110 VAC	1500W	2000W	390x275x105	15.4x10.8x4	7.0	15.5	DC-2000-KIT	S-R5	2
SA-2000K-112	12 VDC	120 VAC	2000W	4000W	422x208x166	16.6x8.18 x6.53	9.0	19.8	DC-2500-KIT	S-R6-12, S-R8	2
SA-3000K-112	12 VDC	120 VAC	3000W	6000W	452x208x166	17.8x8.2x6.5	9.8	22.0	DC-3500-KIT	S-R6-12, S-R8	2

* All SA Series inverters are also available in 24 VDC.

ST Series

DC-AC inverters with a built-in transfer switch.

ST1000-112

SR-6-12

SR-8

See pg. 18 for remote control features (sold separately).

Design Features

- Power ON/OFF remote controls available (sold separately)
- Built-in transfer switch and AC circuit breaker
- Load controlled cooling fan
- LED indicators for input, output and failure status

2 YEAR WARRANTY

ST SERIES	INPUT VDC	OUTPUT VAC	OUTPUT POWER	SURGE	DIMENSIONS (mm)	DIMENSIONS (in)	WEIGHT (kg)	WEIGHT (lb)	INVERTER INSTALLATION	REMOTE
ST1000-112	12 VDC	100-120 VAC	1000 W	2000 W	373x236x115	14.7x9.3x4.5	6.2	14	DC-1000-KIT	S-R8, S-R6-12
ST1500-112	12 VDC	100-120 VAC	1500 W	3000 W	403x236x115	15.9x9.3x4.5	7.0	15	DC-2000-KIT	S-R8, S-R6-12
ST2000-112	12 VDC	100-120 VAC	2000 W	4000 W	433x332x115	17.0 x13.1x4.5	11.2	13	DC-2000-KIT	S-R8, S-R6-12
ST2500-112	12 VDC	100-120 VAC	2500 W	5000 W	463x332x115	18.2x13.1x4.5	12.0	14	DC-2500-KIT	S-R8, S-R6-12

Modified Sine Wave Inverters

SAM Series

Cost-effective and powerful, these Modified Sine Wave AC-DC power inverters are ideal for powering televisions, power tools and lighting systems from your car, truck, boat, RV or solar system battery bank.

SAM-3000-12

SAM-100-12

SAM-RC

See pg. 18 for remote control features (sold separately).

Design Features

- USB Charging Port (Models 100 – 800 Watts only)
- Compact Design
- Load Controlled Cooling Fan
- Low Battery Input Alarm

2 YEAR WARRANTY

SAM MODEL	INPUT	OUTPUT POWER	SURGE	DIMENSIONS (mm)	DIMENSIONS (in)	WEIGHT (kg)	WEIGHT (lbs)	INVERTER INSTALLATION	USB PORT	REMOTE PORT	OUTLETS
SAM-100-12	12 VDC	100W	200W	130x64x39	5.1x2.5x1.5	0.13	0.30	Cigar lighter plug	yes	no	1
SAM-250-12	12 VDC	250W	500W	15x114.4x46	5.9x4.5x1.8	0.42	0.92	Cigar lighter plug	yes	no	1
SAM-450-12	12 VDC	450W	900W	151x154x56.5	6.0x6.1x2.2	0.60	1.30	Cigar lighter plug	yes	no	2
SAM-800-12	12 VDC	800W	1600W	218x180x59	8.6x7.0x2.4	1.32	2.91	N/A	yes	no	2
SAM-1000-12	12 VDC	1000W	2000W	250x180x59	8.6x7.0x2.4	1.69	3.72	DC-1000-KIT	no	SAM-RC	2
SAM-1500-12	12 VDC	1500W	3000W	283x202x84	11.4x7.9x3.3	3.20	7.10	DC-2000-KIT	no	SAM-RC	2
SAM-2000-12	12 VDC	2000W	4000W	345x202x84	13.58x7.9x3.3	3.90	8.50	DC-2500-KIT	no	SAM-RC	3
SAM-3000-12	12 VDC	3000W	6000W	420x202x84	16.5x7.9x3.3	5.30	11.50	DC-3500-KIT	no	SAM-RC	3

Inverter Accessories

Inverter Installation Kits

Connect your inverter to a battery bank SAFELY AND SIMPLY.

Choose your kit based on the size of your inverter

	INVERTER	FUSE SIZE	CABLE GAUGE	CABLE LENGTH
DC-1000-KIT	12 V, 600-1000 W 24 V, 600-2000 W	100 A	AWG #4	2x10 FT
DC-2000-KIT	12 V, 1000-2000 W 24 V, 2000-3000 W	200 A	AWG #2	2x10 FT
DC-2500-KIT	12 V, 2000-2500 W 24 V, 3000-4000 W	300 A	AWG #2\0	2x10 FT
DC-3500-KIT	12 V, 2500-3500 W 24 V, 4000-6000 W	400 A	AWG #4\0	2x10 FT

Connecting the Fuse Block to the Battery

Battery end of positive cable cut & prepared for fitting into fuse block

Fitted fuse assembly

Positive cable connection to the battery with fuse block to protect cables

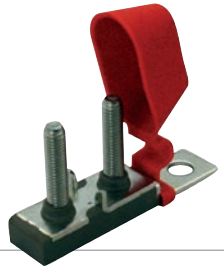
FUSE ASSEMBLIES AND FUSE BOX

DC-FA-100	100 A	Fuse assembly*
DC-FA-200	200 A	Fuse assembly*
DC-FA-300	300 A	Fuse assembly*
CFB2-400	400 A	Fuse block

* Fuse assembly includes single pole fuse bar, fuse, insulating cap and hardware.

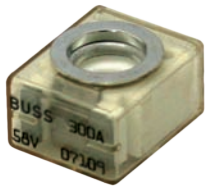
DOUBLE POLE FUSE BAR WITH INSULATING CAP (NO FUSE)

DC-FB-2 Includes nuts and washers (not shown)



INDIVIDUAL REPLACEMENT FUSES

MRBF-100	100A
MRBF-200	200 A
MRBF-300	300A
JLLN-400	400 A



Inverter Accessories

Install your inverter out of sight and operate from a distance using these convenient remotes!

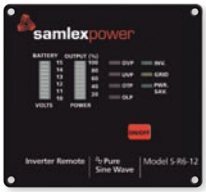
Pure Sine Wave

Model S-R5

- 10 feet of wire included
- Convenient status monitoring
- Push button system ON/OFF
- Power save enable/disable activation
- 2.8 x 2.1 (inches) / 70 x 53.5 (mm)

Inverter compatibility: SA-1500-112.

Pure Sine Wave



Model S-R6-12

- Multi-level LED display shows battery voltage and output power
- Remote override function; ignition lockout option
- 10 feet of wire included
- 4.7 x 5.1 (inches) / 120 x 130 (mm)

Inverter compatibility: SA-1000K-112, SA-2000K-112, SA-3000K-112

Pure Sine Wave

Model S-R8

- 10 feet of wire included
- Convenient status monitoring
- Push button system ON/OFF
- Remote override function, ignition lockout option.
- 2.8 x 2.1 (inches) / 70 x 53.5 (mm)

Inverter compatibility: SA-1000K-112, SA-2000K-112. SA-3000K-112

Pure Sine Wave

Model SSW-R1-12

- LCD Display
- 10 ft of cable with 8P Modular Connector (RJ45)
- LCD indications: Input voltage, Output power, Input fault, Output fault and ZZZ sleep mode.
- 4.0 x 3.2 x 1.4 (inches) / 102 x 82 x 35 (mm)

Inverter compatibility: SSW-1000-12A, SSW-1500-12A, SSW-2000-12A.

Modified Sine Wave

Model SAM-RC

- 10 ft of cable with 8P Modular Connector (RJ45)
- Bar Meter Monitor for battery charge level and output power
- LED indicator lights for: Over voltage protection, Under voltage protection, Over temperature protection, Over load protection, and Power save mode
- 4.5 x 2.75 (inches) / 115 x 70 (mm)

Inverter compatibility: SAM-1000-12, SAM-1500-12, SAM-2000-12, SAM-3000-12

Each Samlex inverter remote is designed for use with a specific DC-AC inverter.

Size your Inverter

Choose an inverter based on your application needs.

DEVICE (Typical Watts Required to Run Device)	PST-12S-12A	PST-15S-12A	PST-30S-12A	PST-60S-12A	PST-100S-12A	PST-150S-12A	PST-200S-12A	SA-150-112	SA-300-112	SA-600R-112	SA-1000K-112	SA-1500-112	SA-3000K-112	SSW-350-12A	SSW-600-12A	SSW-1000-12A	SSW-1500-12A	SSW-2000-12A	SAM-100-12	SAM-250-12	SAM-450-12	SAM-800-12	SAM-1000-12	SAM-1500-12	SAM-2000-12	SAM-3000-12
Can Opener (10W)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•
Electric Knife (100W)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•
Coffee Maker (1150W)						•	•					•	•				•	•								
13" Color TV (80W)			•	•	•	•	•		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•
19" Color TV (60W)			•	•	•	•	•		•	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•
25" Color TV (220W)				•	•	•	•			•	•	•	•		•	•	•	•			•	•	•	•	•	•
Blender (300W)				•	•	•	•			•	•	•	•		•	•	•	•			•	•	•	•	•	•
Food Processor (400W)				•	•	•	•			•	•	•	•		•	•	•	•			•	•	•			•
CD/DVD Player (10W)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Refrigerator (200W)					•	•	•				•	•	•			•	•	•					•	•	•	•
Portable Vacuum (550W)					•	•	•				•	•	•			•	•	•				•	•	•	•	•
Incandescent Lamps (60W)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Compact Fluorescent Lamps (17W)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Microwave Oven (900W)							•						•					•								
Printer (50W)					•	•	•				•	•	•			•	•	•								
Hair Dryer (1250W)						•	•					•	•				•	•						•	•	•
Iron (850W)					•	•	•				•	•	•			•	•	•					•	•	•	•
Laptop Computer (100W)			•	•	•	•	•		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•
Laptop Battery Charger (25W)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cell-phone Charger (25W)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Camcorder Charger (25W)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Whether you want to iron, use a blender or zap something in the microwave, we make it EASY to buy the right inverter to power all your appliances while you are on the road!

Transfer Switch

Automatically switch to utility power when it's available

Completely hands-free, a Samlex transfer switch automatically detects Utility or Generator Power when it's available and allows a seamless transition from your inverter or battery bank.

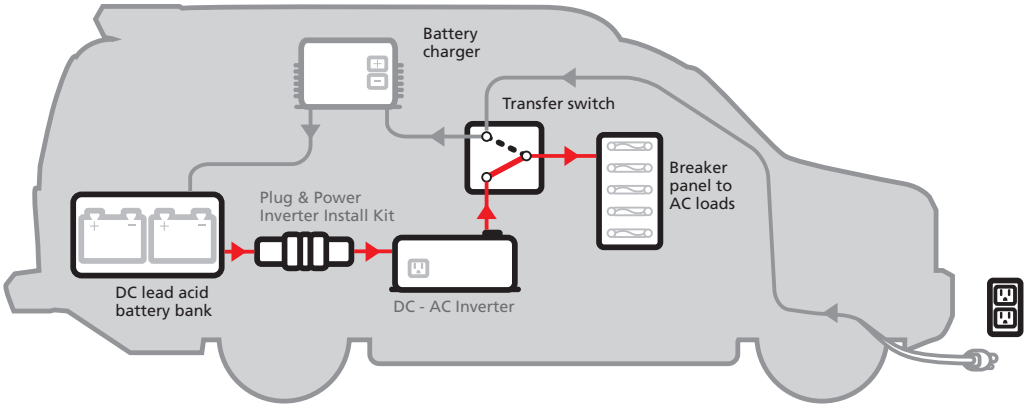
STS-30 Transfer Switch

Design Features

- Automatically switches between 2 separate AC input sources: Utility Power or a Generator and Inverter/Battery Bank
- Has a rated capacity of 30 Amps at 120 VAC and is suitable for a 30 Amp Utility Power Cord and a Generator of up to 3.6 KVA capacity
- Uses a heavy duty Double Pole Double Throw (DPDT) relay for switching both the Line and Neutral
- Can be installed on the line side of the main breaker panel, allowing switching of the entire load or on the load side to only switch dedicated circuits
- DIP Switch select to enable a time delay when transferring to a generator

Connect a Samlex transfer switch to your inverter/battery bank and have your power source switch automatically to utility power when it is available. The transfer switch also protects your inverter from unwanted AC back feed.

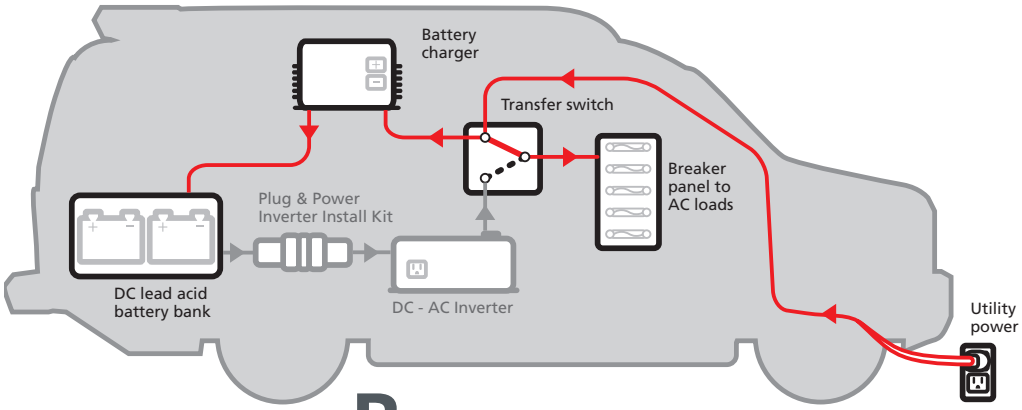
How Your Transfer Switch Works


Battery charger
Transfer switch
Breaker panel to AC loads
Plug & Power Inverter Install Kit
DC lead acid battery bank
DC - AC Inverter

A

A WHEN UTILITY POWER IS UNAVAILABLE…

When you're on the road and utility power is not available, the transfer switch detects your battery bank system and uses it to feed the breaker panel.



B

B WHEN UTILITY POWER IS AVAILABLE…

As soon as you plug in, the transfer switch automatically switches off your mobile system and uses utility power to feed the breaker panel. Connect a battery charger to the terminal provided on the transfer switch and your batteries will also charge when plugged in.

Battery Chargers

Use utility power or a generator to charge and maintain your batteries for future use.

SEC-1280A

900-RC

Remote control sold separately.

Design Features

- Advanced switch mode design
- Overload, short circuit and over-temperature protection
- Ideal for charging any type of lead-acid batteries
- Can also be used as a DC power supply (except BP-1210)

2 YEAR WARRANTY

MODEL	INPUT VOLTAGE	INPUT FREQUENCY	BATTERY VOLTAGE	CHARGING CURRENT	DIMENSIONS (mm)	DIMENSIONS (in)	WEIGHT (kg)	WEIGHT (lbs)	REMOTE (SOLD SEPARATELY)
BP-1210	120/230 VAC	50 - 60 Hz	12 VDC	10 Amps	210x85x50	8.26x3.34x1.96	1.0	2.2	N/A
SEC-1215A	120/230 VAC	50 - 60 Hz	12 VDC	15 Amps	215x214x82	8.50x8.40x3.30	2.2	4.8	N/A
SEC-1230A	120/230 VAC	50 - 60 Hz	12 VDC	30 Amps	273x214x82	10.80x8.40x3.30	2.9	6.4	N/A
SEC-1245A	120/230 VAC	50 - 60 Hz	12 VDC	45 Amps	330x230x108	13.00x9.00x4.00	5.0	11.0	900-RC
SEC-1260A	120/230 VAC	50 - 60 Hz	12 VDC	60 Amps	330x230x108	13.00x9.00x4.00	5.0	11.0	900-RC
SEC-1280A	120/230 VAC	50 - 60 Hz	12 VDC	80 Amps	382x230x108	15.00x9.00x4.00	5.5	12.1	900-RC

Additional Power Products

Samlex offers a full selection of…

Power supplies, DC-DC converters and battery monitoring equipment. For more information and to download our complete product guide, visit www.samlexamerica.com.

DC POWER SUPPLIES

SEC-1212

- Input 120 VAC
- 13.8 VDC output
- 10 Amps

SEC-1223

- Input 120 VAC
- 13.8 VDC output
- 23 Amps

BATTERY GUARDS

BG-40

- 40 Amps
- RoHS Compliant

BG-60

- 60 Amps
- RoHS Compliant

BG-200

- 200 Amps
- RoHS Compliant

DC-DC STEP DOWN CONVERTERS

SDC-15

- 20-30 VDC input
- 13.8 VDC output
- 12 Amps

SDC-23

- 20-30 VDC input
- 13.8 VDC output
- 20 Amps

BATTERY MONITOR

BW-01

- 12 or 24 VDC
- Programmable

With Samlex Solar Power products and accessories, you can power WHAT YOU NEED WHEN YOU NEED IT. Whether it's the television in your RV or a radio in your emergency vehicle, we've got you covered.

Lead Acid Battery Maintenance

Many of the Samlex products contained in this brochure are operated by or, powered by the lead-acid batteries in your vehicle. Proper maintenance will extend the life of your batteries and save you money.

Safety First

It is always advisable to have trained technicians perform regular maintenance on your batteries. If you wish to perform the maintenance yourself, always use extreme caution when handling lead-acid batteries and electrolyte. Wear gloves, goggles and old clothes. The sulphuric acid in lead-acid batteries will burn skin and eyes and destroy cotton and wool clothing. Adopt these specific measures for maximum safety:

1. Someone should be within range of your voice to come to your aid when you work near batteries.
2. Have plenty of fresh water and soap nearby in case battery acid contact skin, clothing, or eyes.
3. Wear complete eye protection and clothing protection. Avoid touching eyes while working near batteries. Wash your hands when done.
4. If acid contacts skin or clothing, wash immediately with soap and water. If acid enters eyes, immediately flood eyes with running cool water for at least 15 minutes and get medical attention immediately.
5. Baking soda neutralizes lead acid battery electrolyte. Vinegar neutralizes spilled NiCad and NiFe battery electrolyte. Keep a supply on hand in the area of the batteries.
6. NEVER smoke or allow a spark or flame in vicinity of a battery or generator.
7. Be extra cautious when working with metal tools on, and around batteries. Potential exists to short-circuit the batteries or other electrical parts which may result in a spark which could cause an explosion.
8. Remove personal metal items such as rings, bracelets, necklaces, and watches when working with a battery. A battery can produce a short-circuit current high enough to weld a ring, or the like, to metal causing severe burns.

9. If a remote or automatic generator start system is used, disable the automatic starting circuit and/or disconnect the generator from its starting battery while servicing to prevent accidental starting during servicing.

10. Disconnect all battery charging devices such as your battery charger, solar charging system and any other devices such as an inverter or DC converter.

Proper Maintenance

1. Plan on spending about 10 minutes every two months to ensure your RV lead acid battery is properly maintained. This will guarantee the vehicle will be ready to go, even at a moment's notice.

   Proper battery maintenance falls among two categories: external and internal. Both are quite easy.

2. Wipe down the exterior of the battery with a dry cloth. While doing so, look for bulges or cracks in the battery case. If any are found, these indicate the battery needs replacing.

   After the battery is clean, gently rock it back and forth to ensure that it is still securely locked in place. Tighten the battery hold-down clips if necessary.

3. Visually inspect the battery terminals for any corrosion (rust or green flakes). If corrosion is present, remove the battery cables from the terminals. Remember which cable goes to which terminal.

   Red cable ends typically go to the positive battery terminal and black cable ends go to the negative battery terminal. Imprinted on the battery case will be a "+" beside the positive terminal and a "-" beside the negative terminal.

4. Clean both battery terminals and both cable ends by gently scrubbing them with a stiff wire brush. Repeated brushing should change their appearance so that you just see clean metal again on all surfaces.

5. Re-attach the battery cables to the terminals, being careful to attach them exactly as they were removed. Inspect the cables for cracks or other damage. If cracked, they will need to be replaced.

6. Check the water level of the battery (if it's not a sealed battery). Gently remove the water filler plugs (called vent caps) using a screwdriver. Look into the holes with a flashlight. The water level should be just below the bottom of the filler hole. If not, add a small amount of distilled water, using a small funnel.

   Be careful not to overfill. Repeat for all vent caps. Make sure all are reinstalled snugly.

Notes:

Customer Support

Samlex America Inc.
Corporate Head Office
British Columbia, Canada

TOLL FREE: 1-800-561-5885
www.samlexsolar.com

North American Sales Division: sales@samlexsolar.com

Latin American Sales Division: international@samlexsolar.com

Our Promise to You

- Experienced Manufacturing (20 + years)
- Quality Products
- Competitive Pricing
- Responsive and Personal Customer Service
- Extended Warranty
- Live Technical Support

Samlex provides innovative power conversion products while providing you with the BEST CUSTOMER SERVICE in the industry.

Liability Disclosure

Power Inverters can be very dangerous if not selected, used, installed or maintained properly. When in doubt, a qualified electrical professional should be contacted for advice. Contact with high voltage could result in injury, death or risk of fire.